421

SERVICE MANUAL

FISHER

SERVO DRIVE
SEMI-AUTOMATIC
TURNTABLE

MT-872

EUROPE

134 095 40
(lid supplied)
134 095 41
(without lid)

SPECIFICATION

Motor	DC Servo
Drive System	Belt
Wow and Flutter (WRMS)	0.065%
Rumble (DIN 45539B)	−70dB
Speed Variation	±0.5%
Speed Control Range	±3%
Platter Diameter	298mm
Platter Weight	300g
Record Speed Selector	33-1/3rpm / 45rpm
Automatic Functions	
Stop	Yes
Reject	Yes
Automatic Tonearm Return at End of Record	Yes
Manual Functions	
Start	Yes
Stop	Yes
Tonearm Data	
Resonance	< 10Hz
Effective Length	222mm
Shape	Straight
Max. Tracking Error	±1.8°
Cueing	Viscous Damped

GENERAL

Power Requirements (50Hz)	AC 220V
Power Consumption	4 W
Dimensions (WxHxD)	440 mm x 105 mm x 355 mm
Weight (approx)	3.1 kg

– Specifications and design are subject to change without notice. –

REFERENCE No. WM-19657

421

REPLACING THE CARTRIDGE

When replacing the cartrige, first loosen the cartridge set screw, then pull the cartridge out gently as shown in Fig. 1. To install the replacement cartridge, reverse the procedure.

NOTE:
When replacing the cartridge, the top surface of the cartridge must be lined up with the top surface of the tonearm (Fig. 2).

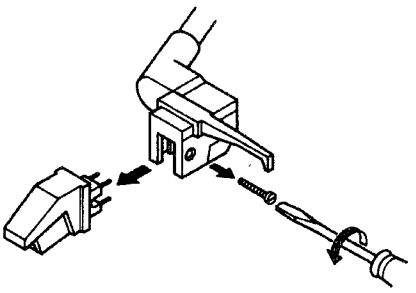


Fig. 1

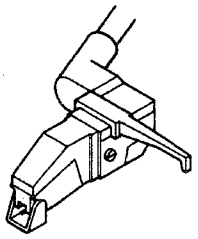


Fig. 2

ADJUSTMENT

ROTATION ADJUSTMENT

1. Set the speed switch (S2) to the "45rpm" position and set the unit in the playback mode.
2. Adjust the VR1 using the strobo scope sheet so that the rotation should be fitted well. (Fig. 3)
3. Set the speed switch (S2) to the "33-1/3rpm" position and adjust the VR2 in the same method as explained on 45rpm.

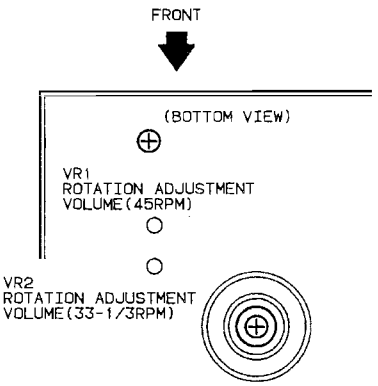


Fig. 3

PICK-UP RETURN POSITION ADJUSTMENT

1. Remove the turntable mat and the turntable platter.
2. Adjust the screw as illustrated in Fig. 4, so that the tonearm return position is positioned. Turning the screw clockwise adjusts the return potition outward and counter-clockwise adjust it inward.

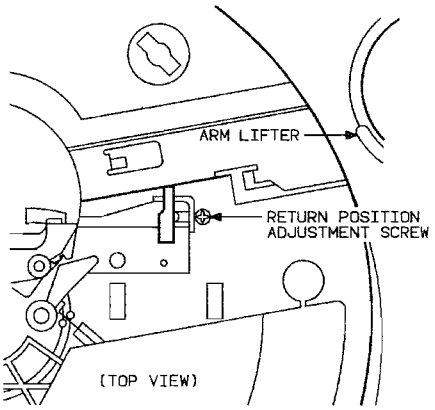
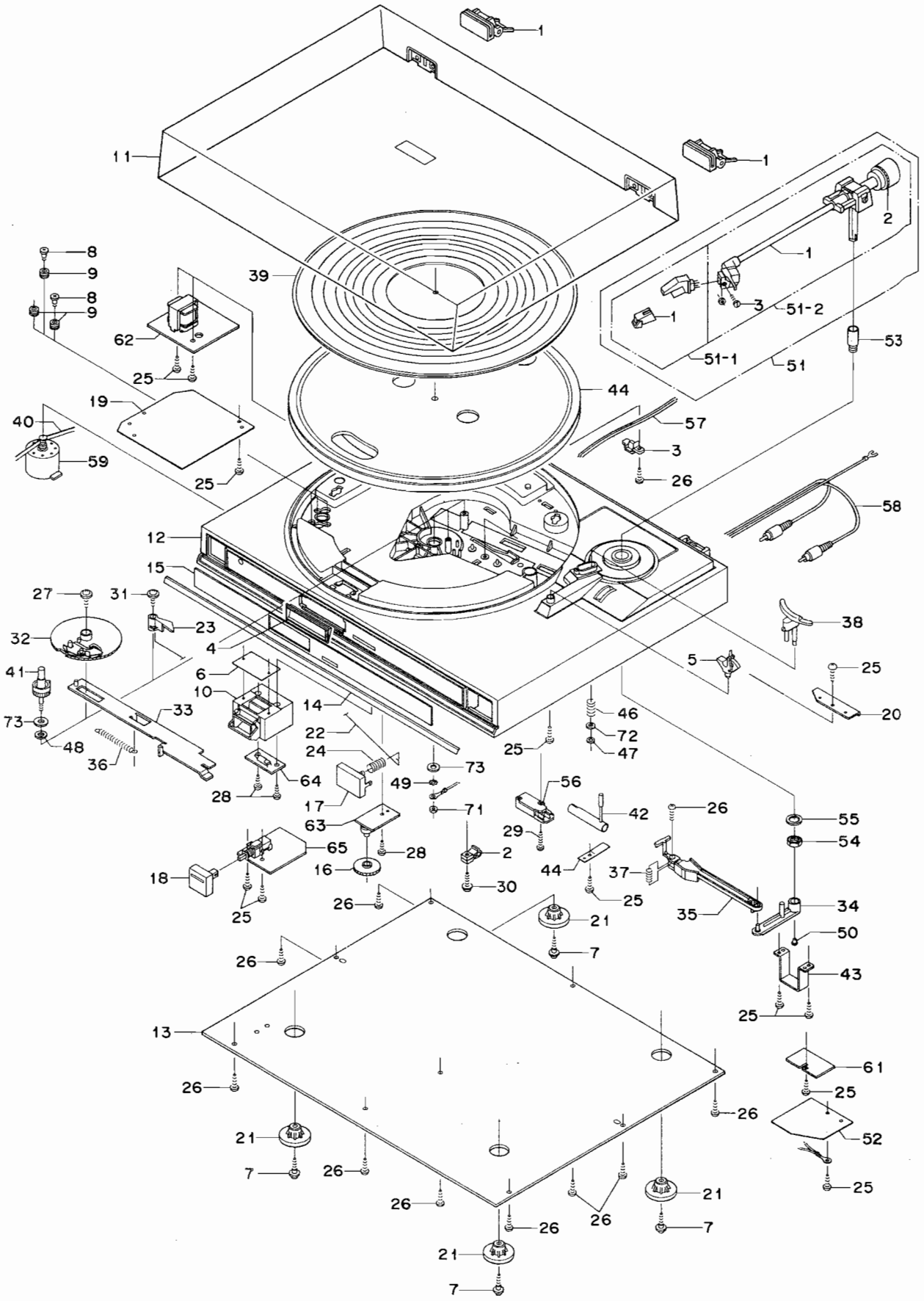


Fig. 4

CABINET & CHASSIS EXPLODED VIEW



CABINET & CHASSIS PARTLIST

PRODUCT SAFETY NOTICE

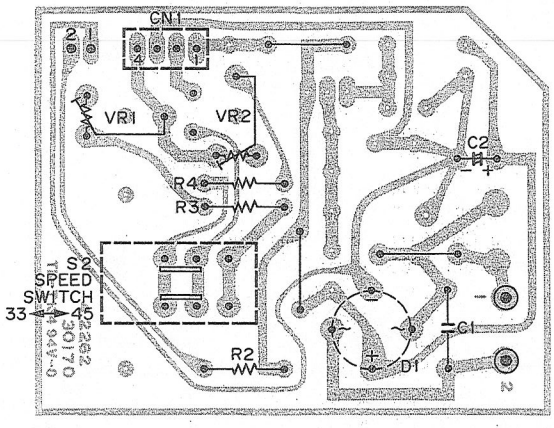
Each precaution in this manual shold be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

Ref. No.	Part No.	Description	Q'ty
	PACKAGE		
	141-6-1139-96528	Box Corrugate-Exp. (lid supplied)	1
	141-6-1189-19020	Box Corrugate-Exp. (without lid)	1
	141-6-2519-16390	Bag Polyethylene-Exp. (lid supplied)	1
	141-6-2519-16490	Bag Polyethylene-Exp.	1
	141-6-2519-16590	Bag Polyethylene-Exp.	1
	141-6-2519-22090	Poly Cover	1
	141-6-2519-22990	Bag Polyethylene-Ind.	1
	141-6-3119-24001	Pad Front (lid supplied)	1
	141-6-3119-33300	Pad Front (without lid)	1
	141-6-3119-24101	Pad Rear (lid supplied)	1
	141-6-3119-33400	Pad Rear (without lid)	1
	141-6-3119-24300	Pad (lid supplied)	1
	141-6-3119-34700	Pad (lid supplied)	1
	141-6-3119-23402	Pad (without lid)	1
	141-6-3119-36800	Pad Pick-up	1
	141-6-3219-00800	Patching Sheet	1
	141-6-4559-04035	Serial No. Sheet	1
	ACCESSORIES		
	131-6-2719-10401	Bag Fan	1
	134-2-2901-11601	Adapter EP	1
	142-6-4119-33391	Explanatory Booklet	1
	CABINET		
	4-2359-79815	Connector 1P Assy	1
	131-2-3608-14100	Cramp Wire	14
	131-2-7103-46800	Label	1
	141-2-1449-77609	Name Plate	1
	141-6-4559-04035	Serial No. Sheet	1
1	131-0-2002-17600	Hinge Assy (lid supplied)	2
2	131-2-3608-11000	Cramp Wire	1
3	131-2-3608-16800	Cramp Wire	1
4	131-2-6308-23200	Filter	1
5	134-0-6031-12300	Arm Rest Assy	1
6	134-2-4108-28400	Plate	1
7	134-2-4201-13401	Screw	4
8	134-2-4201-13600	Screw	2
9	134-2-5202-11800	Rubber Cushion	3
10	141-0-1149-12400	Cover (Strobo) Assy	1
11	141-0-1249-32400	Lid Assy (lid supplied)	1
12	141-2-1129-50300	Cabinet	1
13	141-2-1259-10600	Plate Bottom	1
14	141-2-1449-61273	Plate Front	1
15	141-2-1449-74804	Plate Control	1
16	141-2-1639-57600	Knob	1
17	141-2-1659-32504	Knob	1
18	141-2-1659-32604	Knob	1
19	141-2-3229-56900	Cover	1
20	141-2-3519-77800	Plate	1
21	141-2-4459-36500	Cushion	4
22	141-2-7359-07300	Rod	1
23	141-2-7439-50200	Arm	1
24	141-2-8559-06100	Spring	1
25	131-2-4201-19502	Screw, Button Hd. Tapping	12
26	131-2-4201-19503	Screw, Button Hd. Tapping	11
27	131-2-4201-28300	Screw	2
28	131-2-4201-19501	Screw, Button Hd. Tapping	3
29	131-2-4201-19505	Screw, Button Hd. Tapping	1
30	131-2-4201-25202	Screw, Brazier Hd. Tapping-B, +M3X14	1
31	131-2-4201-25205	Screw	1
32	134-0-6030-12000	Gear Cycling Assy	1
33	141-0-3519-25000	Plate Return Assy	1
34	141-2-7439-50300	Plate Pick-up Fix	1
35	141-2-7439-50400	Arm	1
36	141-2-8549-34701	Spring	1
37	141-2-8559-15000	Spring	1
38	134-2-3310-12600	Support Arm	1
39	134-2-6102-15704	Mat Turntable	1
40	134-2-6302-11601	Belt	1
41	141-0-7519-04900	Shaft Turntable Complete	1
42	141-2-1629-10900	Knob	1
43	141-2-3519-79601	Angle Mount	1
44	141-2-5229-01000	Turntable	1
45	141-2-8539-57300	Spring Plate	1
46	141-2-8559-06100	Spring	1
47	131-2-4220-10502	Ring Snap	1
48	141-2-4569-09900	Washer	1
49	131-2-4203-19703	Washer	1
50	134-2-4117-11600	Support Shaft	1
51	141-0-6419-04100	Pick-up Assy	1
51-1	4-1579-70310	Cartridge (ortofon M5P)	1
1	4-1579-70320	Stylus (ortofon N5P)	1
51-2	141-0-6419-03100	Tone Arm Assy	1
1	141-0-6429-00500	Pick-up Arm Assy	1
2	141-0-6439-00400	Pick-up Weight Assy	1
3	411 035 6309	SCR CYL 2X10	1
52	141-2-3229-56200	Cover Shield	1
53	141-2-3529-52900	Spacer	1
54	131-2-4202-14200	Nut	1
55	131-2-4203-20203	Washer	1
56	⚠ 4-2319-77360	Micro Switch (Power) [S1]	1
57	⚠ 4-2432-00502	Power Cord	1
58	131-0-4004-15003	Wire Shield Assy	1
59	134-0-5011-04500	Motor Assy [M1]	1
61	141-0-1939-18550	Phono P.C.B. Assy	1
62	141-0-1939-18743	Power Trans P.C.B. Assy	1
63	141-0-1939-19710	Speed Adjust P.C.B. Assy	1
64	141-0-1939-19720	Neon P.C.B. Assyu	1
65	141-0-1939-18532	Power Supply P.C.B. Assy	1
71	411 004 6408	NUT HEX 4	1
72	411 008 8705	WASHER Z 3.2X10X0.5	1
73	411 008 9603	WASHER Z 4.2X10X0.5	2

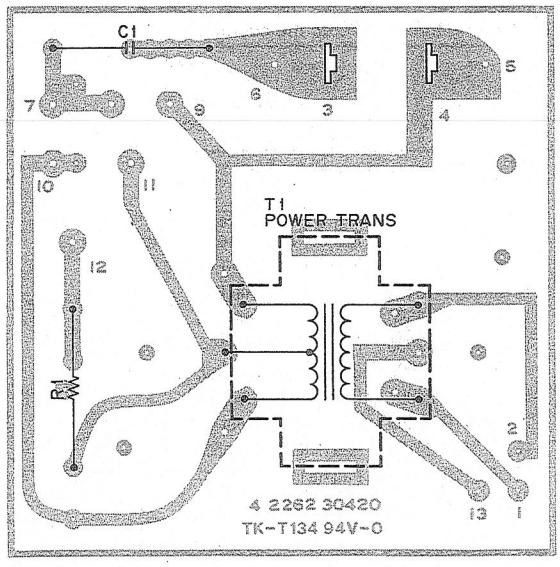
NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

POWER SUPPLY P.C.BOARD
(BOTTOM VIEW)



POWER TRANS P.C.BOARD
(BOTTOM VIEW)



P.C.BOARD PARTS LIST

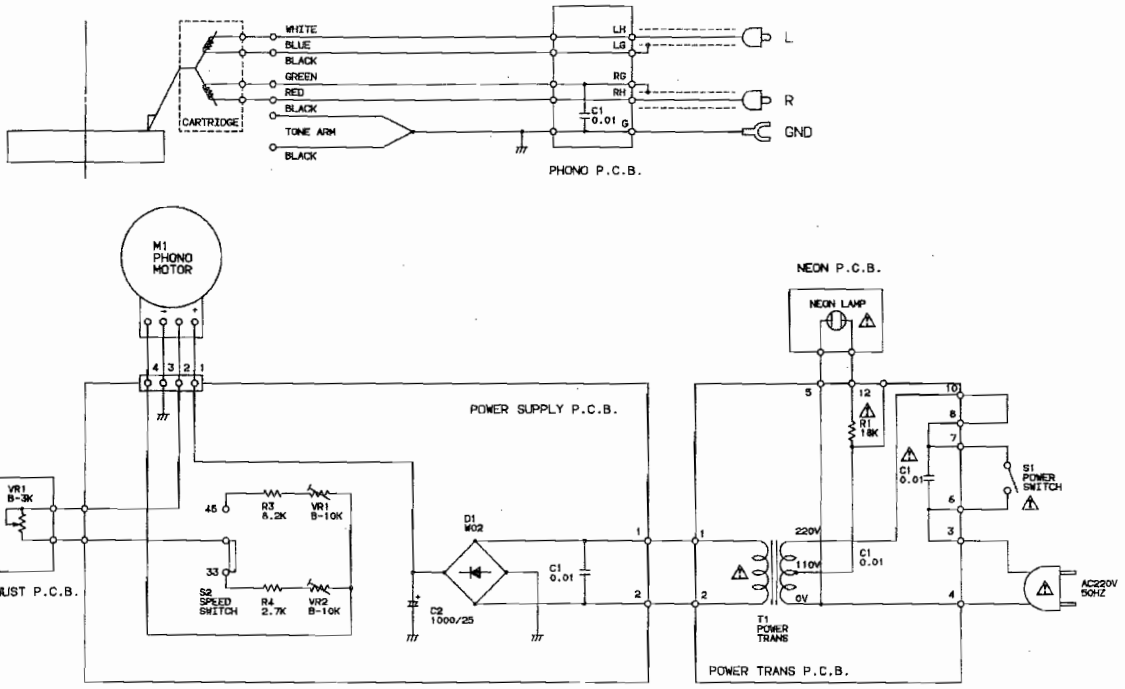
Ref. No.	Part No.	Description	Q'ty
	PHONO P.C.B. ASSY		
61	141-0-1939-18550	Phono P.C.B. Assy	1
C1	403 069 8404	CERAMIC 0.01U Z 50V	1
	POWER TRANS P.C.B. ASSY		
62	141-0-1939-18743	Power Trans P.C.B. Assy	1
	4-2372-00830	EC Terminal 1P	2
	111-2-6220-11100	Wire Wrap Terminal	7
	131-2-6114-00810	Cover Safety	1
T1	⚠ 4-2512-05124	Power Trans	1
C1	⚠ 4-2239-70900	Mylar 0.01MF 250V M	1
R1 ⚠	401 059 8601	OXIDE-MT 18K JA 1W	1
	SPEED ADJUST P.C.B. ASSY		
63	141-0-1939-19710	Speed Adjust P.C.B. Assy	1
	111-2-6220-11100	Wire Wrap Terminal	2
VR1	4-2229-75070	Volume (B-3kΩ)	1
	NEON P.C.B. ASSY		
64	141-0-1939-19720	Neon P.C.B. Assyu	1
	⚠ 4-6129-70640	Neon Lamp	1
	111-2-6220-11100	Wire Wrap Terminal	2

Ref. No.	Part No.	Description	Q'ty
	POWER SUPPLY P.C.B. ASSY		
65	141-0-1939-18532	Power Supply P.C.B. Assy	1
	4-2359-79995	Connector 4P Assy	1
	111-2-6220-11100	Wire Wrap Terminal	2
S2	4-2319-79670	Push Switch (Speed)	1
VR1	4-2222-01400	Potentiometer (B-10kΩ)	1
VR2	4-2222-01400	Potentiometer (B-10kΩ)	1
D1	407 061 9209	DIODE W02	1
C1	404 012 7000	CERAMIC 0.01U P 500V	1
C2	403 045 2907	ELECT 1000U M 25V	1
R3	401 023 2802	CARBON 8.2K JA 1/4W	1
R4	401 017 1804	CARBON 2.7K JA 1/4W	1

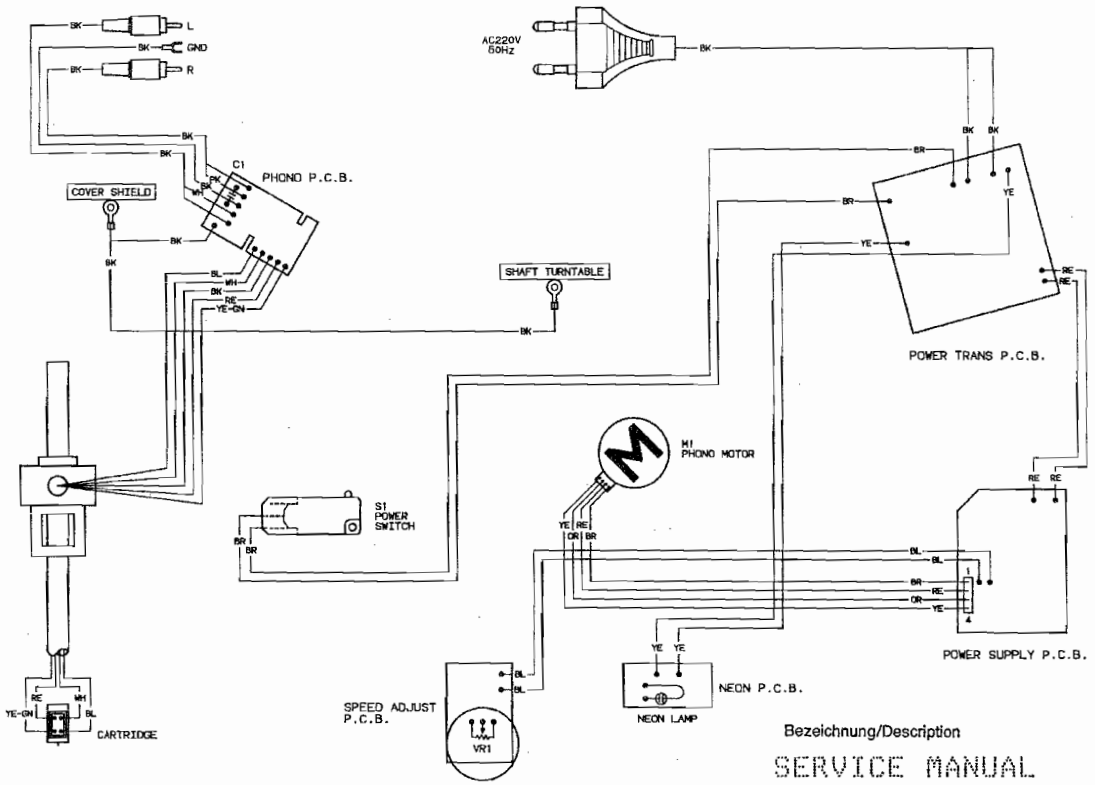
NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

SCHEMATIC DIAGRAM



POINT TO POINT WIRING DIAGRAM



Bezeichnung/Description

SERVICE MANUAL

Teile-Nr./Parts No. Menge/Quantity

WM19657 2

Lagerort LS-Nr.

35C01 421749 / 4 **an** 0/K

FISHER HiFi Service GmbH